



2005 STANDARD DRAWINGS

http://www.udot.utah.gov/index.php/m=c/tid=1091

Change 7, July 11, 2006

Memorandum utah department of transportation

DATE: July 11, 2006

TO: Region Directors

Project Engineers

Project Design Engineers

Project Managers

Consultants and Contractors

FROM: Barry Axelrod, CDT

Standards and Specifications

SUBJECT: 2005 Standard Drawings [U.S. Standard Unit (Inch-Pound Units)] Change 7,

Dated July 11, 2006

A new index and updated drawings are attached. Please take the following action with respect to the attached pages.

<u>REMOVE</u>	<u>INSERT</u>
Cover	Cover - revised for Change Seven
N/A	Memo - Insert after cover
Index	Index - revised
Listing	Listing of Revised Standard Drawings, w/Changes 1, 2, 3, 4, 5, 6,
_	& 7
Sheet 1C	Sheet 1C - revised
GW 6	GW 6 - revised
ST 4	ST 4 - revised
TC 11	TC 11 - revised

Electronic files for all Standards Drawings are available on the Internet from the "2005 Standards" Web page, under "2005 Standard Drawings." Individual files are available in two locations. For Microstation DGN format files download individual files from the "2005 Individual Standard Drawings (DGN)" link. For Adobe PDF format files download individual and series files from the "2005 Individual Standard Drawings (PDF)" link. The Series files are zipped in an EXE file. The entire set of drawings is available in Adobe pdf format in six files from the same area as the "2005 Current Drawings" link. The following page shows a break down of the six parts and the drawing series included in each part.

Any changes made to a digitally signed UDOT Standard Drawing Microstation DGN files automatically invalids the digital signatures.

Please note that the 2005 Standards are still in effect. There is no plan to issue a new set of Standards for a 2006 version.

If you have any questions or problems with the electronic files contact me at 801-964-4570 or by email at baxelrod@utah.gov.

Because of file size the 2005 Standard Drawings have been split into six files. The contents of each part are listed below.

Part 1 (Updated as part of Change 1, 2, 3, 4, 5, 6, and 7)

Index

Sheets 1B and 1C

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BA Series Drawings

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CB Series Drawings

CC Series Drawings

DB Series Drawings

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DG Series Drawings

EN Series Drawings

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FG Series Drawings

GF Series Drawings

GW Series Drawings

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ST Series Drawings

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STANDARD DRAWINGS INDEX (Change 7, Dated 07/11/06) UTAH DEPARTMENT OF TRANSPORTATION

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Listing of Revised Standard Drawings

Change One

Revised February 24, 2005

AT 1	Legend Sheet	02/24/2005
AT 2	Ramp Meter Details	02/24/2005
AT 3	Ramp Meter Sign Panel	02/24/2005
AT 5	Ramp Meter Loop Installation	02/24/2005
AT 6	Conduit Details	02/24/2005
AT 7	Polymer-Concrete Junction Box Details	02/24/2005
AT 8	ATMS Cabinet	02/24/2005
AT 9	ATMS Cabinet Disconnect And Transformer Frame	02/24/2005
AT 10	CCTV Mounting Details	02/24/2005
AT 11	CCTV Pole Details	02/24/2005
AT 12	CCTV Pole Foundation For Dedicated CCTV Pole	02/24/2005
AT 13	Deleted	N/A
AT 14	Weigh In Motion Piezo Details	02/24/2005
AT 15	RWIS Site And Foundation Details	02/24/2005
AT 16	RWIS Tower Base And Service Pad Layout	02/24/2005
AT 17	Ground Rod Installation And Tower Grounding	02/24/2005
AT 18	TMS Detection Zone Layout	02/24/2005
BA 3	Deleted	N/A
BA 3A	Cast In Place Constant Slope Barrier	02/24/2005
BA 3B	Precast Concrete Constant Slope Transition Section For	02/2 1/2000
	Crash Cushion And W-Beam Guardrail	02/24/2005
BA 4B	W-Beam Guardrail Transition	02/24/2005
BA 4C	W-Beam Guardrail Transition Curb Section	02/24/2005
CC 7	Deleted	N/A
CC 7A	Grading And Installation Details Crash Cushion Type F	
	Quad Trend 350	02/24/2005
CC 7B	Reserved For Future Use	N/A
CC 8	Deleted	N/A
CC 8A	Grading And Installation Details Crash Cushion Type G	02/24/2005
CC 8B	Grading And Installation Details For "3R" Projects Crash	
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CC 9A	Grading And Installation Details Crash Cushion Type H	02/24/2005
CC 9B	Grading And Installation Details Crash Cushion Type H	
	(Parabolic Flare)	02/24/2005
DD 4	Geometric Design for Freeways (Roadway)	02/24/2005
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Change Two

Revised April 28, 2005

AT 4	Typical Ramp Meter Signal Head Mounting	04/28/2005
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CB 2	Open Curb Inlet	04/28/2005
CB 3	Shallow Catch Basin	04/28/2005
CC 8A	Grading And Installation Details Crash Cushion Type G	04/28/2005
CC 8B	Grading And Installation Details For "3R" Projects Crash	
	Cushion Type G	04/28/2005
CC 9A	Grading And Installation Details Crash Cushion Type H	04/28/2005
CC 9B	Grading And Installation Details Crash Cushion Type H	
	(Parabolic Flare)	04/28/2005
DD 4	Geometric Design for Freeways (Roadway)	04/28/2005
FG 4	Deleted	N/A
FG 4A	Deer Crossing Details	04/28/2005
FG 4B	Deer Ramp Details	04/28/2005
SL 12	Traffic Counting Loop Detector Details	04/28/2005
SL 13	Video Detection Camera Mount	04/28/2005
SN 8	Ground Mounted Timber Sign Post (P1)	04/28/2005
SN 11	Slipbase Ground Mounted Tubular Steel Sign Post (P4)	04/28/2005

Change Three

Revised June 30, 2005

CB 5A	Standard Catch Basin and Cleanout Box	06/30/2005
GW 5A	Pedestrian Access	06/30/2005
GW 5B	Pedestrian Access	06/30/2005
GW 5C	Pedestrian Access	06/30/2005

Change Four

Revised August 25, 2005

Precast Concrete Full Barrier Standard Section	08/25/2005
Precast Concrete Constant Slope Transition Section	08/25/0205
For Crash Cushion And W-Beam Guardrail	08/25/0205
W-Beam Guardrail Transition	08/25/2005
Crash Cushion Type F BEAT-SSCC	08/25/2005
Fill Height for Metal Pipe (Steel)	08/25/2005
Temporary Erosion Control (Check Dams)	08/25/2005
Temporary Erosion Control (Silt Fence)	08/25/2005
Temporary Erosion Control (Slope Drain And	
Temporary Berm)	08/25/2005
Temporary Erosion Control (Drop Inlet Barriers)	08/25/2005
Temporary Erosion Control (Pipe Inlet And Curb	
Inlet Barriers)	08/25/2005
Temporary Erosion Control (Sediment Trap and	
Stabilized Construction Entrance)	08/25/2005
Temporary Erosion Control (Straw Bale Barrier)	08/25/2005
Highway Luminaire Pole Ground Mount	08/25/2005
Luminaire Slip Base Details	08/25/2005
Ground Mounted Sign Installation Details	08/25/2005
	Precast Concrete Constant Slope Transition Section For Crash Cushion And W-Beam Guardrail W-Beam Guardrail Transition Crash Cushion Type F BEAT-SSCC Fill Height for Metal Pipe (Steel) Temporary Erosion Control (Check Dams) Temporary Erosion Control (Silt Fence) Temporary Erosion Control (Slope Drain And Temporary Berm) Temporary Erosion Control (Drop Inlet Barriers) Temporary Erosion Control (Pipe Inlet And Curb Inlet Barriers) Temporary Erosion Control (Sediment Trap and Stabilized Construction Entrance) Temporary Erosion Control (Straw Bale Barrier) Highway Luminaire Pole Ground Mount Luminaire Slip Base Details

Change Five

Revised October 27, 2005

BA 4D	W-Beam Guardrail Anchor Type I	10/27/2005
BA 4R	W-Beam Median Barrier Transition	10/27/2005
CC 5	Deleted	N/A
CC 5A	Grading And Placement Details Crash Cushion	
	Type C "Brakemaster"	10/27/2005
CC 5B	Grading And Placement Details Crash Cushion	
	Type C "C.A.T"	10/27/2005
CC 5C	Grading And Placement Details Crash Cushion	
	Type C "FLEAT-MT"	10/27/2005

Change Six

Revised February 23, 2006

AT 7	Polymer-Concrete Junction Box Details	02/23/2006
AT 11	CCTV Pole Details	02/23/2006
BA 1A	Precast Concrete Full Barrier Standard Section	02/23/2006
DG 5	Deleted	N/A
DG 5A	Plastic Pipe Culvert Installation	02/23/2006
DG 5B	Metal Pipe Or Pipe Arch Culvert Installation	02/23/2006
DG 5C	Precast Concrete Pipe Culvert Installation	02/23/2006
DG 6	Safety Slope End Section For Circular and Arched Pipes	02/23/2006
DG 9	Miscellaneous Pipe Details	02/23/2006
GW 5A	Pedestrian Access	02/23/2006
GW 5B	Pedestrian Access	02/23/2006
SL 1A	Traffic Signal Mast Arm Pole And Luminaire Extension	02/23/2006
SL 1B	Traffic Signal Mast Arm Pole And Luminaire Extension	02/23/2006
SL 2	Traffic Signal Mast Arm Details 30' Thru 75'	02/23/2006
SL 3	Underground Service Pedestal Details	02/23/2006
SL 4	Traffic Signal Mast Arm Pole Foundation	02/23/2006
SL 5	Traffic Signal Pole	02/23/2006
SL 8	Signal Head Details	02/23/2006
SL 10	Traffic Signal Controller Base Details	02/23/2006
SL 11	Traffic Signal Loop Detector Details	02/23/2006
SL 13	Video Detection Camera Mount	02/23/2006
ST 5	Painted Median And Auxiliary Lane Details	02/23/2006
SW 4B	Precast Concrete Retaining/Noise Wall 2 Of 2	02/23/2006

Change Seven

Revised June 29, 2006

GW 6	Right of Way Marker	06/29/2006
ST 4	Crosswalks, Parking and Intersection Approaches	06/29/2006
TC 11	Traffic Control Exit Ramp Gore	06/29/2006

UTAH DEPARTMENT OF TRANSPORTATION

STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

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DWG. NO.	DESCRIPTION	DATE
	Fence and Gates (FG)	
FG 1A	RIGHT OF WAY FENCE AND GATES (WOOD POST)	01-01-05
FG 1B	RIGHT OF WAY FENCE AND GATES (WOOD POST)	01-01-05
FG 2A	RIGHT OF WAY FENCE AND GATES (METAL POST)	01-01-05
FG 2B	RIGHT OF WAY FENCE AND GATES (METAL POST)	01-01-05
FG 3	SWING GATES TYPE 1 FOR GATES LESS THAN 17'	02-24-05
FG 4A	DEER CROSSING DETAILS	04-28-05
FG 4B	DEER RAMP DETAILS	04-28-05
FG 5	SWING GATES TYPE II FOR GATES WIDER THAN 17'	01-01-05
FG 6	CHAIN LINK FENCE	01-01-05
	Grates, Frames and Trash Racks (GF)	
GF 1	MANHOLE FRAME AND GRATED COVER	01-01-05
GF 2	MANHOLE FRAME AND SOLID COVER	01-01-05
GF 3	RECTANGULAR GRATE AND FRAME	01-01-05
GF 4	DIRECTIONAL FLOW GRATE AND FRAME	01-01-05
GF 5	SOLID COVER AND FRAME	01-01-05
GF 6	MANHOLE STEPS	01-01-05
GF 7	STANDARD SCREW GATE AND FRAME	01-01-05
GF 8	2' x 2' GRATE AND FRAME	01-01-05
GF 9	28" x 24" DIRECTIONAL FLOW GRATE AND FRAME	01-01-05
GF 10	STANDARD TRASH RACKS 90° X-ING ANGLE	01-01-05
GF 11	STANDARD TRASH RACKS	01-01-05
GF 12	STANDARD TRASH RACKS	01-01-05
GF 13	OPEN CURB INLET GRATE AND FRAME	01-01-05
GF 14	SOLID COVER FOR STD DWG DB 1 MS-18 LOADING	01-01-05
GF 15	STANDARD SCREW GATE AND FRAME	01-01-05
	General Road Work (GW)	
GW 1	RAISED MEDIAN AND PLOWABLE END SECTION	01-01-05
GW 2	CONCRETE CURB AND GUTTER	01-01-05
GW 3	CONCRETE CURB AND GUTTER DETAILS	01-01-05
GW 4	CONCRETE DRIVEWAYS AND SIDEWALKS	01-01-05
GW 5A	PEDESTRIAN ACCESS	02-23-06
GW 5B	PEDESTRIAN ACCESS	02-23-06
GW 5C	PEDESTRIAN ACCESS	06-30-05
GW 6	RIGHT OF WAY MARKER	06-29-06
GW 7	NEWSPAPER AND MAILBOX STOP LAYOUT	01-01-05
GW 8	NEWSPAPER AND MAILBOX SUPPORT HARDWARE	01-01-05
GW 9	DELINEATION HARDWARE	01-01-05
GW 10	DELINEATION APPLICATION	01-01-05
GW 11	SIDEWALKS AND SHOULDERS ON URBAN ROADWAYS	01-01-05

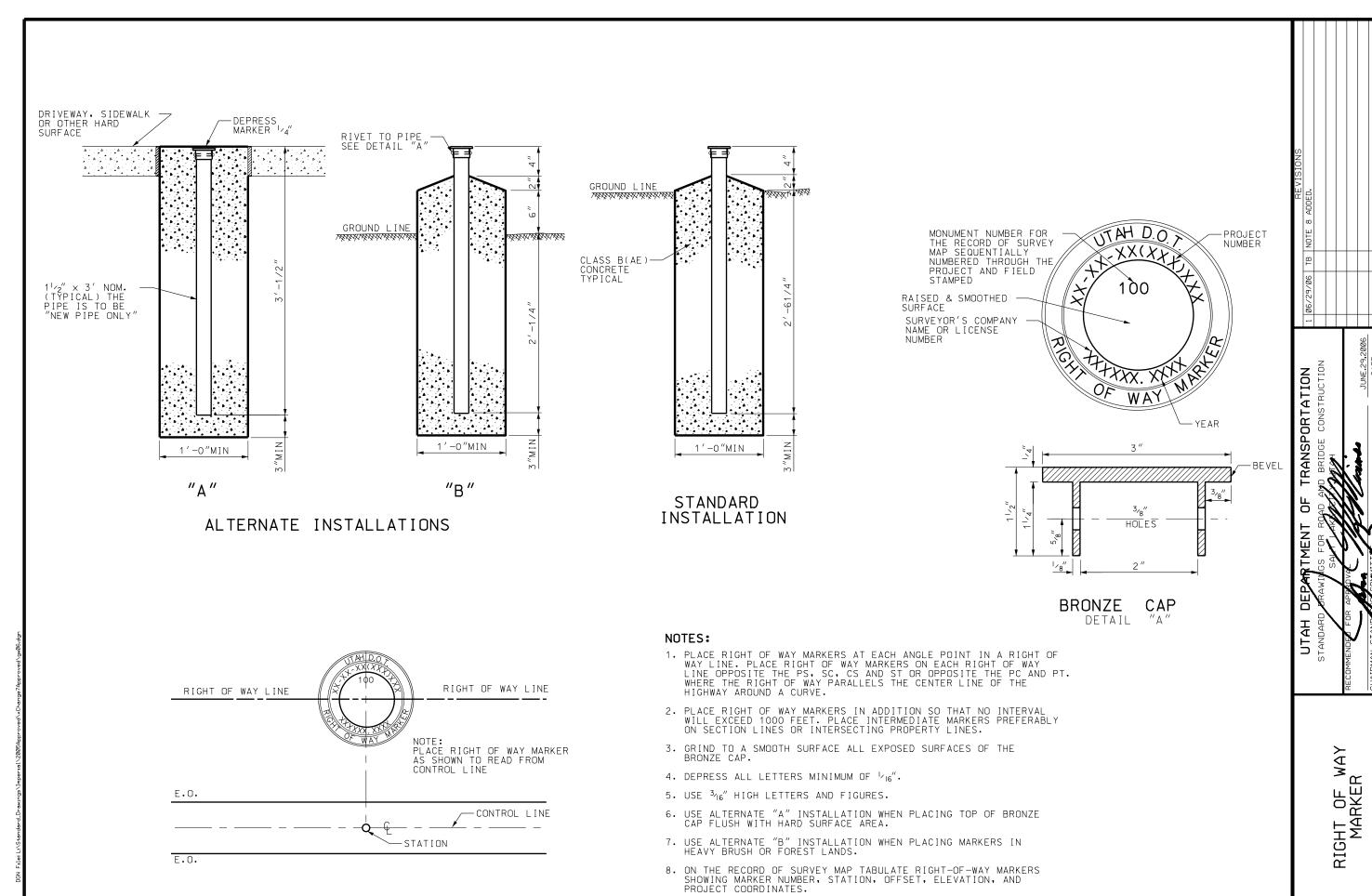
	DWG. NO.	DESCRIPTION	DATE
	1100	Paving (PV)	
	PV 1	JOINTS FOR HIGHWAYS WITH CONCRETE TRAFFIC LANES AND SHOULDERS	01-01-05
	PV 2	PAVEMENT/APPROACH SLAB DETAILS	01-01-05
	PV 3	CONCRETE PAVEMENT DETAILS FOR URBAN AND INTERSTATE	01-01-05
	PV 4	CONCRETE PAVEMENT DETAILS FOR URBAN AND INTERSTATE	01-01-05
	PV 5	URBAN CONCRETE PAVEMENT DETAILS	01-01-05
	PV 6	RUMBLE STRIPS	01-01-05
	PV 7	RUMBLE STRIPS-TYPICAL APPLICATION	01-01-05
	PV 8	NOT USED	
	PV 9	DOWEL BAR RETROFIT	01-01-05
		Signals (SL)	
	SL 1A	TRAFFIC SIGNAL MAST ARM POLE AND LUMINAIRE EXTENSION	02-23-06
	SL 1B	TRAFFIC SIGNAL MAST ARM POLE AND LUMINAIRE EXTENSION	02-23-06
٦	SL 2	TRAFFIC SIGNAL MAST ARM DETAILS 30' THRU 75'	02-23-06
T	SL 3	UNDERGROUND SERVICE PEDESTAL DETAILS	02-23-06
	SL 4	TRAFFIC SIGNAL MAST ARM POLE FOUNDATION	02-23-06
	SL 5	TRAFFIC SIGNAL POLE	02-23-06
	SL 6	POLE MOUNTED POWER SOURCE DETAILS	01-01-05
	SL 7	SPAN WIRE SIGNAL POLE DETAILS	01-01-05
	SL 8	SIGNAL HEAD DETAILS	02-23-06
	SL 9	PEDESTRIAN SIGNAL ASSEMBLY	01-01-05
	SL 10	TRAFFIC SIGNAL CONTROLLER BASE DETAILS	02-23-06
	SL 11	TRAFFIC SIGNAL LOOP DETECTOR DETAILS	02-23-06
	SL 12	TRAFFIC COUNTING LOOP DETECTOR DETAILS	04-28-05
	SL 13	VIDEO DETECTION CAMERA MOUNT	02-23-06
	SL 14	HIGHWAY LUMINAIRE POLE GROUND MOUNT	08-25-05
	SL 15	LUMINAIRE SLIP BASE DETAILS	08-25-05
	SL 16	HIGHWAY LUMINAIRE POLE BARRIER MOUNT	01-01-05
	SL 17	HIGHWAY LUMINAIRE POLE FOUNDATION EXTENSION	01-01-05
	SL 18	SINGLE TRANSFORMER SUBSTATION DETAILS	01-01-05
		Signs (SN)	
	SN 1	BRIDGE LOAD LIMITS SIGNS	01-01-05
	SN 2	SCHOOL SPEED LIMIT ASSEMBLY	01-01-05
T	SN 3	OVERHEAD SCHOOL SPEED LIMIT ASSEMBLY	01-01-05
	SN 4	FLASHING STOP SIGN	01-01-05
	SN 5	TYPICAL INSTALLATION FOR MILEPOST SIGNS	01-01-05
	SN 6	SPEED REDUCTION SIGN SEQUENCE	01-01-05
	SN 7	PLACEMENT OF GROUND MOUNTED SIGNS	01-01-05
	SN 8	GROUND MOUNTED TIMBER SIGN POST (P1)	04-28-05
	SN 9	GROUND MOUNTED TUBULAR STEEL SIGN POST (P2)	01-01-05
	SN 10	GROUND MOUNTED SQUARE STEEL SIGN POST (P3)	01-01-05
	SN 11	SLIPBASE GROUND MOUNTED TUBULAR STEEL SIGN POST (P4)	04-28-05
٦	SN 12A	GROUND MOUNTED SIGN INSTALLATION DETAILS	08-25-05
	SN 12B	GROUND MOUNTED SIGN INSTALLATION DETAILS	01-01-05
	SN 12C	GROUND MOUNTED SIGN INSTALLATION DETAILS	01-01-05
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DWG.	DESCRIPTION	DATE
	Striping (ST)	
ST 1	OBJECT MARKERS "T" INTERSECTION AND PAVEMENT TRANSITION GUIDANCE	01-01-05
ST 2	FREEWAY CROSSOVER MARKINGS	01-01-05
ST 3	TYPICAL PAVEMENT MARKINGS	01-01-05
ST 4	CROSSWALKS, PARKING AND INTERSECTION APPROACHES	06-29-06
ST 5	PAINTED MEDIAN AND AUXILIARY LANE DETAILS	02-23-06
ST 6	PASSING/CLIMBING LANES TRAFFIC CONTROL	01-01-05
ST 7	PAVEMENT MARKINGS AND SIGNS AT RAILROAD CROSSING	01-01-05
ST 8	PLOWABLE PAVEMENT MARKERS	01-01-05
ST 9	SCHOOL CROSSING AND SCHOOL MESSAGE	01-01-05
	Structures and Walls (SW)	
SW 1A	WELDED END GUARD UNIT	01-01-05
SW 1B	PRECAST CONCRETE CATTLE GUARD	01-01-05
SW 2	NOISE WALL PLACEMENT AREA	01-01-05
SW 3A	PRECAST CONCRETE NOISE WALL 1 OF 2	01-01-05
SW 3B	PRECAST CONCRETE NOISE WALL 2 OF 2	01-01-05
SW 4A	PRECAST CONCRETE RETAINING/NOISE WALL 1 OF 2	01-01-05
SW 4B	PRECAST CONCRETE RETAINING/NOISE WALL 2 OF 2	02-23-06
5W 4B	TREGACT CONCRETE RETAINING/NOISE WALE 2 OF 2	02-23-00
	Traffia Cantral (TC)	
TC 4.0	Traffic Control (TC)	04.04.05
TC 1A	CONSTRUCTION ZONE CHANNELIZATION DEVICES	01-01-05
TC 1B	CONSTRUCTION ZONE SIGNING	01-01-05
TC 2A	TRAFFIC CONTROL GENERAL	01-01-05
TC 2B	TRAFFIC CONTROL BROUFST LIMIT SIGNING	01-01-05
TC 3	TRAFFIC CONTROL PROJECT LIMIT SIGNING TRAFFIC CONTROL URBAN INTERSECTIONS WITH ROADWAYS	01-01-05
TC 4	UNDER 50 MPH TRAFFIC CONTROL URBAN INTERSECTIONS WITH ROADWAYS	01-01-05
TC 5	UNDER 50 MPH	01-01-05
TC 6	TRAFFIC CONTROL PEDESTRIAN ROUTING	01-01-05
TC 7	TRAFFIC CONTROL ROAD CLOSED, DETOUR	01-01-05
TC 8	TRAFFIC CONTROL LANE CLOSURE	01-01-05
TC 9	TRAFFIC CONTROL MULTILANE CLOSURE TRAFFIC CONTROL EXPRESSWAY AND FREEWAY CROSSOVER/	01-01-05
TC 10	TURN AROUND	01-01-05
TC 11	TRAFFIC CONTROL EXIT RAMP GORE	06-29-06
TC 12	TRAFFIC CONTROL ENTRANCE RAMP GORE	01-01-05
TC 13	TRAFFIC CONTROL SHOULDER-HAUL ROAD	01-01-05
TC 14	TRAFFIC CONTROL FLAGGING OPERATION	01-01-05
TC 15	TRAFFIC CONTROL 2 LANE / 2 WAY SEAL COAT WITH COVER MATERIAL	01-01-05
TC 16	TRAFFIC CONTROL PAVEMENT MARKING	01-01-05

RANSPORTATION BRIDGE CONSTRUCTION STANDARD DRAWING INDEX SHEET STD DWG 1-C

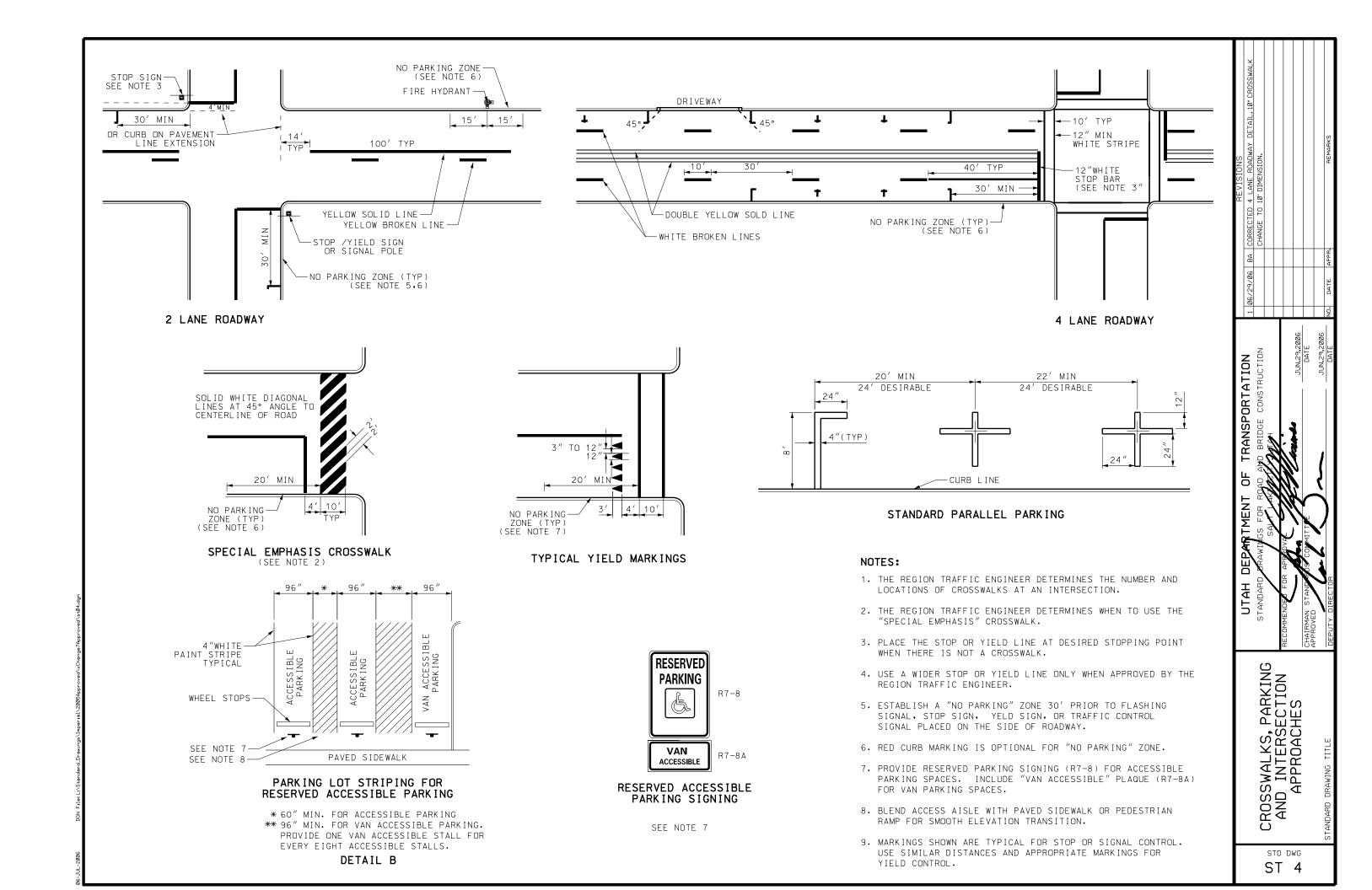
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MARKED BOXES INDICATE DRAWINGS APPLICABLE TO THIS PROJECT



UL-2006

STD DWG



TRAFFIC CONTROL FOR EXIT RAMP GORE SEE NOTE 1 600'(SEE NOTE 2) 300'(SEE NOTE) 300′ TRANSPORTATION BRIDGE CONSTRUCTION (DETAIL TC 11-1) **EXIT EXIT** XXX XXX 600 FT SEE NOTE 3 SEE NOTE 3 SEE NOTE 1 400′ TRAFFIC CONTROL EXIT RAMP GORE USE LANE SHIFT TAPER USING MAINLINE SPEED LIMIT (DETAIL TC 11-2) NOTES: 1. MAINTAIN 12' TRAVEL LANE AND 2' SHOULDER WIDTHS. 2. USE CHANNELIZING DEVICES SPACED AT 50'. STD DWG 3. SEE STD DWG TC 1B. TC 11